Power Transducer Series L-UNIT

CT TRANSDUCER

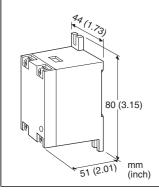
(super-miniature size; self-powered, average sensing, RMS calibrated)

Functions & Features

- Converting an alternating current from a current transformer into a standard process signal
- Minimum ripple
- No auxiliary power source required
- Isolation up to 2000 V AC
- · High-density mounting

Typical Applications

- Centralized monitoring and control of motors, pumps or heaters by DCS
- · Monitoring power line and power supply current



MODEL: LECA-[1][2][3][4]

ORDERING INFORMATION

• Code number: LECA -[1][2][3][4]

Specify a code from below for each [1] through [4].

(e.g. LECA-51G/Q)

- Load resistance (e.g. 160 Ω)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT

Current

1: 0 - 1 A AC

5: 0 - 5 A AC

[2] FREQUENCY

1: 50 Hz

2: 60 Hz

[3] OUTPUT

Current

G: 0 - 1 mA DC

Voltage

4: 0 - 10 V DC

5: 0 - 5 V DC

[4] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front **Connection**: M4 screw terminals (torque 1.2 N·m)

Screw terminal: Nickel-plated brass (standard) or stainless

steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output Input waveform: Sine wave Overrange output: 0 to 120 % Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 1 VA

Overload capacity: 1000 % of rating for 3 sec., 200 % of

rating for 10sec., 120 % continuous Operational range: 0 – 120 % of rating

OUTPUT SPECIFICATIONS

■ DC Current

Load resistance

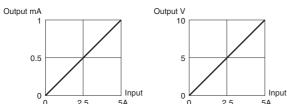
(Output Range) 0 - 1 mA DC: \leq 5000 Ω

■ DC Voltage Load resistance

(Output Range) 0 - 10 V DC: \geq 100 k Ω

0 - 5 V DC: \geq 50 k Ω

■ OPERATION DIAGRAM (example)



INSTALLATION

Operating temperature: -10 to +55°C (14 to 131°F)
Operating humidity: 30 to 85 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 170 g (0.37 lb)

PERFORMANCE in percentage of span

Accuracy: ± 0.5 % (at 23°C ± 10 °C or 73.4°F ± 18 °F, at rated

frequency ±5 %)

Response time: \leq 2 sec. (0 - 100 % ±1 %)

Ripple: 1 %p-p max.

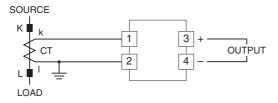
Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

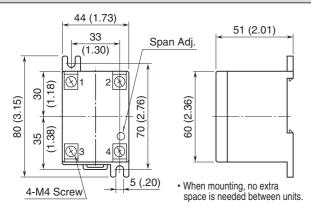
Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV

(input to output or ground)

CONNECTION DIAGRAM

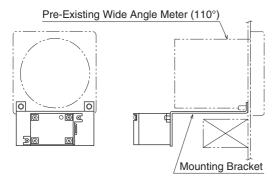


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



■ BRACKET MOUNTING EXAMPLE

If there is no space for mounting, then mounting can be done as per the figure below





Specifications are subject to change without notice.